

Brief CV January 2013



Associate Professor TAN Tin Wee

BA (Cambridge), MSc (London), PhD (Edinburgh)

Chairman, A*STAR Computational Resource Centre, Fusionopolis, Singapore
and

Master, Eusoff Hall, National University of Singapore, 10 Kent Ridge Drive

Immediate Past Head of Department of Biochemistry

National University of Singapore

8 Medical Drive, MD7, BIC Lab Level 3, Singapore, 117597

(65) 96640347

- tinwee@bic.nus.edu.sg

- www.bic.nus.edu.sg/~tinwee

EDUCATION

Ph.D. Molecular Biology from University of Edinburgh, UK, 1990.

MSc (Biotechnology and Molecular Biology) Distinction, University of London, 1986

BA (Biochemistry) University of Cambridge, UK, 1985

CAREER

2011 – Present	Chairman, A*STAR Supercomputing Centre, (ACRC) Singapore
2001 – Present	Advisor to Executive Director (on Supercomputing), Science and Engineering Research Council (SERC), Agency for Science Technology and Research (A*STAR)
2010 – Present	Editorial Board, BMC Bioinformatics
2009 – Present	Board Director, iGates Bioinnovation Pte Ltd.
2006 – Present	Board Director, International Society for Computational Biology (3 rd Term)
2003 – Present	Master of Eusoff Hall, National University of Singapore
2002 – Present	International Conference on Bioinformatics (Secretary of Steering Committee)
2002 – Present	Singapore Focal Point, ASEAN Subcommittee on Infrastructure for Research and Development (SCIRD)
2000 – Present	Independent Director, Keppel Telecommunications and Transportation Ltd (SGX-listed company), Chair Nominations Committee, Member Audit, Remunerations; Member, Divestment Committee and MobileOne IPO committee.
2000 – Present	Advisor and retired President, Association for Medical and Bio Informatics Singapore (AMBIS)
1999 – Present	Associate Professor, Dept. of Biochemistry, Faculty of Medicine, National University of Singapore (NUS)
1998 – Present	Founding Convenor, Secretariat, Asia Pacific Bioinformatics Network (APBioNet) and Director, Asia Pacific Bioinformatics Network Limited.
2007 – 2011	Deputy Head, Dept. of Biochemistry, National University of Singapore (NUS)
1998 – 2000	Associate Director, Centre for Internet Research, NUS
1998 – 1999	Special Advisor to Director-General, Asia Pacific Network Information Center (APNIC) - Internet Addresses and Numbers for AP Region, Singapore
1997 – 1999	Co-Director, User Community Area, Asia Pacific Advanced Network (APAN) Consortium - Advancing high performance networking in AP region
1996 – 1997	Co-founder of Asia Pacific Advanced Network (APAN), representing Singapore Advanced Research and Education Network (SINGAREN) together with representatives from Australia, Japan, Korea and Singapore
1997 – 1999	South East Asian Representative, Coordinating Committee for InterContinental Research Networking (CCIRN), Singapore
1997 – 2001	Founding Non-executive director, Bioinformatrix Pte Ltd -An NUS Spin-off Company, Singapore

1997 – 1999	Chairman, Asia Pacific Networking Group (APNG), Singapore
1997 – 1999	Advisor to SingCERT Incident response and Internet Security for Singapore Telemanufacturing Research Group Pioneering remote rapid prototyping Satellite Internet Competency Unit Advancing satellite internet technology
1997 – 1998	Chairman, CAL Project, IT Task Force for Special Education Schools, National Council for Social Service, Singapore
1997 – 1998	Principal Investigator and Founder, Singapore Advanced Research and Education Network (SINGAREN), Singapore
1996 – 2001	Co-Chairman, Enable2000 virtual committee for Internet among people with disabilities, Singapore
1996 – 2001	Director, Bioinformatics Centre, National University of Singapore (NUS)
1996 – 2000	President, Association for Informatics in Medicine Singapore (AIMS), Singapore
1996 – 1997	Consultant, ASEAN Science and Technology Information Network (ASTNET) Project, Singapore
1995 – 1998	Head, Internet Research and Development Unit; Assistant Director, Computer Centre, NUS; <i>Upgraded into Centre for Internet Research</i>
1995 – 1997	Consultant, National Technology Databank, Singapore
1994 – 1995	Head, Technet Unit, NUS; <i>commercialised into Pacific Internet (NASDAQ)</i>
1993 – 1996	Coordinator, EDB-NUS Biotechnology Database, Singapore
1993 – 1994	Consultant, Education Sector, Schools Internet Pilot Project, National Computer Board, Singapore
1992 – 2003	Resident Fellow, Sheares Hall of Residence, NUS
1992 – 1996	Coordinator, Biocomputing Research and User Support technology group, Singapore
1991 – 1992	Non-Resident Fellow, Eusoff College, NUS
1990 – 1995	Lecturer/Senior Lecturer, Dept of Biochemistry, Faculty of Medicine, NUS
1986 – 1989	Research Fellow, Animal Health Trust, UK
1986 – 1989	SubWarden, Kitchener House, Edinburgh University, UK.

RESEARCH INTERESTS

- 1) Biodatabases; Large-scale workflow integration; grid computing; immunomics & vaccine informatics.
- 2) Computer protocols, applications and standards for biological entities, nomenclature, pathways, diagramming and software tools interfacing.
- 3) Advanced Internet research networks, cloud and supercomputing for bioinformatics applications.
- 4) Internet protocols for bioinformatics and multilingual internet names.

INTERNATIONAL AND LOCAL AWARDS AND SCHOLARSHIPS, HONOURS, ACHIEVEMENTS

2012, Geneva	Inducted into the Inaugural Internet Hall of Fame, Internet Society during the INET Global 2012 Congress, Geneva, together with 32 other Internet luminaries such as Vint Cerf, Bob Kahn, Tim Berners-Lee and Al Gore.
2011, Singapore	Keppel Telecommunications and Transportation Ltd, Singapore Corporate Awards, Best Managed Board Award, (mid-cap category)
2010, Singapore	Keppel Telecommunications and Transportation Ltd, Singapore Corporate Awards, Best Annual Report Award. Gold (mid-cap category)
1998-2011	Founder and inventor of IDN (Internationalized Domain Names) and patents associated with IDN, from which the Internet IDNA

standards derive from, recently launched by ICANN for global deployment

1990 -2010

Founding or Pioneering Efforts in Organisations:

APBioNet – Founding Convenor 1998 coordinating the International Conference on Bioinformatics for the past eight years.

SINGAREN – Founder of Singapore’s advanced network.

APAN – Co-Founder of Asia’s advanced research network

Tamil Internet Conference – Co-Founder of the global Tamil conference

INFITT – Co-Founder and Current Advisor of the global Tamil IT group

MINC – Co-Founder of the International IDN group

BIC – Founder of the Bioinformatics Centre, Singapore’s first bioinformatics group

Enable2000 – CoFounder of Internet for Disability communities

APNG – Elected Chairman of APNG’s research commissions

APTLD and wwTLD – Co-Founder and first webmaster

ASTRENA – Founder of the ASEAN internet research network

IRDU – Founding Head, Internet Research and Development Unit, NUS, now CIR, SoC, NUS.

AMBIS – initiator of the change from AIMS medical informatics society in Singapore to bio and medical informatics.

i-DNS.net International – CoFounder of the IDN technology company

June 2010 Coimbatore, India

Tamil Internet Frontier Award at the 9th Tamil Internet Conference, World Classical Tamil Congress, Coimbatore, for pioneering contributions to the Tamil Internet community since 1995.

August 2008 Singapore

ASEAN Science and Technology Meritorious Award
ASEAN Committee on Science and Technology

April 2006 Singapore

High Performance Grid Computing Competition, 2nd Prize
National University of Singapore Computer Centre

Feb 2005 Kyoto, Japan

Recognition Award for early pioneering contributions to Asia Pacific Regional Internet Conference on Operational Technologies
during APRICOT2005 10th Anniversary.

2003 USA

High Performance Computing (HPC) Challenge Award: Most Geographically Distributed Application at Supercomputing Conference, SC2003. Member of the international team on project entitled "Global Analysis of Arthropod Evolution"

1998 Singapore

National University of Singapore Annual Staff Achievement Award

	1998
1998 Singapore	7th Indian Cultural Festival Innovation Award (team award to the Tamil Web Project) Centre for Internet Research/NUS and School of Arts/NIE/NTU
1997 Jakarta	ASEAN Achievement Award (Research and Development) ASEAN Business Forum
1997 Singapore	Japan Chamber of Commerce and Industry (JCCI) Singapore Foundation (for contribution towards Internet and IT in education)
1997 Singapore	Life Insurance Association (LIA) Award, Singapore (team award for community work in building Internet access for people with disabilities)
1994 Singapore	Singapore Youth Award (Excellence in Science and Technology) (Internet biological databases and biocomputing)
1992 Geneva	Gold Medal, World Congress for Medical Informatics, Geneva MEDINFO'92 (best presentation - Internet biomedical databases)
1989 UK	Annual Award, Vaccine Research Trust, UK - (Chlamydial vaccines for sheep)
1986-89 UK	Animal Health Trust (UK) Research Fellowship
1986-89 UK	UK Overseas Research Student Award (ORS)
1985-1986 UK	Trinity College (Cambridge, UK) Travelling Studentship
1980 Singapore	Singapore Government Overseas Merit Scholarship (OMS) (Teaching) Declined.

MAJOR GRANTS AWARDED AND/OR MANAGED

2009-2011	EUAsiaGrid FP7 Grant (European Commission 7 th Framework Programme) – project member via project manager, Professor Marco Paganoni, INFN (National Institute of Nuclear Physics), Italy
2005-2011	National Institutes of Health, USA NO1 and U19, as a subcontractor of Johns Hopkins University (Professor J Thomas August, JHMI)
1999-2002	S\$6.1M - Bioinformatics Research Programmes from National Science and Technology Board (NSTB), Singapore
1999-2001	S\$1M - GlaxoWellcome-BIC Bioinformatics research grant in collaboration with CNPR (under BIC directorship) from GW Manufacturing

	(Singapore) Pte Ltd
1999-2000	C\$72K - Pan-Asia Networking Research Grant, International Development Research Centre, Canada (PI)
1998-2000	S\$2M - GlaxoWellcome-BIC Bioinformatics research grant in collaboration with CNPR (under BIC directorship) from GW Manufacturing (Singapore) Pte Ltd
1997-1999	S\$88K – National University of Singapore Grant for running Asia Pacific Networking Group secretariat (PI)
1997-1998	S\$28M - Singapore Advanced Research and Education Network (SingAREN) (Founding Principal Investigator - upgraded to national-status project in 1998) from Telecommunications Authority of Singapore (TAS) and National Science and Technology Board (NSTB)
1997-1998	National Science Foundation (NSF), USA. Matching grant for high performance network connectivity of SINGAREN to STARTAP Chicago (Science Technology and Research Transit Access Point) via Professor Tom De Fanti. University of Chicago.
1996-1999	S\$6M - Bioinformatics Centre (Founding Principal Investigator) from Economic Development Board (EDB), Singapore
1995-1998	S\$2.08M - Internet R&D Unit (Founding Principal Investigator) from NSTB, Singapore
1995-1996	S\$185K - Singapore Broadcasting Authority Grant on Internet regulation (Co-PI)
1995-1996	S\$100K - Singapore Network Services (Co-PI)
1994-1996	S\$30K - Biocomputing Research grant (PI) (self-contributed from KC Lun, Derek Kiong and Tan Tin Wee as a bridging grant for sustaining bioinformatics research in National University of Singapore)
1994-1995	S\$3.5M - Internet for R&D (as the last Head of Technet Unit) from National Science and Technology Board (NSTB), Singapore
1992-1994	S\$33K - National Biotechnology Database-Directory project (PI) from TIBS grant, National Biotechnology Programme, EDB, Singapore

Publications

More than 300 invited talks, international journal publications, books, from 1987 to 2012. For Research Publications, please see Google Scholar: Keywords "Tan Tin Wee" or "Tin Wee Tan" or "Tan TW" under User Profiles.